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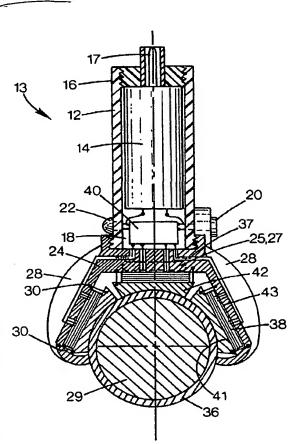
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(54) Title: SENSOR FOR DETERMINING THE EFFECT OF ANAESTHETIC TREATMENT BY COOLING THE SKIN WITH THE SENSOR



(57) Abstract: The sensor device has a housing (12) with a flanged housing (24). The housing (24) is made of a material having a first high heat-conductivity index. A holder (30) is attached to the housing (24) and made of a material with a second low heat-conductivity index that is substantially lower than the first high heat conductivity index. The holder (30) holds a peltier element (38) and is connected to a power source (14) so that the element (38) has a cooled layer (41) and a heated layer (43). A rotatable roller (36) is in operative engagement with the layer (41) so that the layer (41) cools the roller (36). The roller (36) may be rolled on the skin of the patient to determine the scope and effect of anesthetic treatment.